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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/766,882	01/30/2004	Sandro Grech	59643.00316	4108	
32294 7.	590 10/02/2006		EXAMINER		
` '	NDERS & DEMPSE	SHEDRICK, CHARLES TERRELL			
14TH FLOOR 8000 TOWERS CRESCENT			ART UNIT	PAPER NUMBER	
TYSONS COR	TYSONS CORNER, VA 22182				
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office A.4' Octoor	10/766,882	GRECH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Charles Shedrick	2617				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01 Se	eptember 2006.					
,	action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>30 January 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	or the certified copies not receive	a.				
AMarkananda						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) T Interview Summer	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date	6)					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/1/06 has been entered.

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-15 are rejected under 35 U.S.C. 102(a) as being anticipated by Parikh et al. (see PTO-892 Non-patent Literature section U)

Consider claim 1, Parikh et al. teaches the method for ensuring continuity of a communication session when a user equipment hands over from a first communication network (i.e., WLAN) to a second communication network (i.e., CDMA2000) comprising: performing an authentication procedure for a packet data session with the second communication network while the user equipment is still connected to the first communication network (abstract, introduction, section 4.1 and figure 4); and simultaneously performing a packet data protocol session establishment procedure with the second communication network while the user equipment still connected to the first communication network (abstract, introduction, section)

4.1 and figure **4**).

Consider claim 2 and as applied to claim 1 above, Parikh et al. teach a method as claimed in claim 1, wherein the performing of the authentication procedure comprises authenticating the second communication network (i.e., the CDMA2000) by the user equipment (i.e., authentication challenge)(section 4.1 and figure 4).

Consider claim 3 and as applied to claim 2 above, Parikh et al. teach a method as claimed in claim 2, wherein the step of performing the authentication procedure comprises authenticating the user equipment by the second communication network (i.e., the authentication challenge) (section 4.1 and figure 4).

Consider claim 4 and as applied to claim 1 above, Parikh et al. teach a method as claimed in claim 1, further comprising: providing the first communication network comprising a Wireless Local Area Network (WLAN) and the second communication network comprising a cellular network (i.e., CDMA2000)(section 1).

Consider claim 5 and as applied to claim 1 above, Parikh et al. teach a method as claimed in claim 1, wherein the performing of the authentication procedure comprises sending information by a user equipment for authentication and packet data session establishment, wherein the information travels either as a separate IP package or is piggybacked with existing signaling (section 4.1 and figure 4).

Consider claim 6 and as applied to claim 1 above, Parikh et al. teach a method as claimed in claim 1, further comprising: configuring a gateway node (i.e., AR)(figure 4.1) between the first communication network and the second communication network to act as an access router for the first communication network and to host the packet data session in the

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second communication network (section 4.1 and figure 4).

Consider claim 7 and as applied to claim 1 above, Parikh et al. teach a method as claimed in claim 1, further comprising: releasing a packet data session if a user equipment does not handover to the second communication network within a predetermined time thus requiring the user equipment to repeat the authentication procedure if the user equipment is moving towards the second communication network for a specified time (i.e., a gap in coverage) (section 4.2.1).

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Consider claim 8 and as applied to claim 1 above, Parikh et al. teach a method as claimed in claim 1, further comprising: (i) sending by a user equipment a handover trigger indication to a gateway node in the second communication network, wherein the handover trigger indication comprises user equipment identification parameters and a packet data protocol profile (section 4.1 and figure 4); (ii) sending by a gateway node the user equipment identification parameters and the packet data protocol profile to a serving node in the second cellular communication network (section 4.1 and figure 4); (iii) contacting by the serving node a home location register to obtain user equipment authentication parameters (section 4.1 and figure 4); (iv) sending by the serving node a packet data protocol profile request to the gateway node (section 4.1 and figure 4); (v) responding by sending by the gateway node a packet data protocol profile response to the serving node(section 4.1 and figure 4); (vi) sending by the serving node authentication information to the gateway node(section 4.1 and figure 4); (vii) sending the gateway node the authentication information to the user equipment(section 4.1 and figure 4); (viii) authenticating by the user equipment the second communication network(section **4.1 and figure 4)**; (ix) sending by the user equipment a response to the serving node and moving

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the user equipment into the second cellular communication network(section 4.1 and figure 4);

Consider claim 9 and as applied to claim 1 above, Parikh et al. clearly show and disclose a method as claimed in claim 1, further comprising: (i) sending by a user equipment a handover trigger indication to a gateway node in the second communication network(section 4.1 and figure 4); (ii) sending by the gateway node a protocol data unit notification request to a serving node in the second communication network(section 4.1 and figure 4); (iii) contacting by the serving node a home location register (i.e., HA) to obtain user equipment authentication parameters(section 4.1 and figure 4); (iv) sending by the serving node a proxy authentication and a ciphering request to the gateway node(section 4.1 and figure 4); (v) converting by the gateway node authentication information in the ciphering request which is then sent to the user equipment(section 4.1 and figure 4); (vi) responding by the user equipment with an authentication message which is sent to the gateway node(section 4.1 and figure 4); (vii) converting by the gateway node the authentication message from the user equipment and sending a proxy authentication and a ciphering response to the serving node(section 4.1 and figure 4); (viii) sending by the serving node a protocol data unit notification response to the gateway node(section 4.1 and figure 4,conclusion); (ix) sending by the serving node a create packet data protocol request to the gateway node(section 4.1 and figure 4, conclusion) (i.e., see "network initiated bearer setup"); (x) sending by the gateway node a create packet data protocol response to the serving node(section 4.1 and figure 4, conclusion) (i.e., see "network initiated bearer setup"); and (xi) replying by the gateway node to the handover trigger indication sent by the user equipment by sending a handover trigger response to the user equipment(section 4.1 and figure 4).

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Consider claim 10, Parikh et al. clearly show and disclose a method for ensuring continuity of a communication session, the method comprising: handing over by a user equipment from a first communication network (i.e., WLAN) (figures 1 and 2) to a second cellular communication network (IMT-2000 Radio Network) (figures 1 and 2), and when the user equipment hands over from the first communication network to the second communication network (section 4.1 and figure 4), maintaining an attachment of the user equipment to the first communication network after the user equipment moves away from a coverage area of the first communication network for a predetermined time in order to allow the user equipment to return to the first communication network without having to repeat an authentication procedure and a packet data session establishment procedure before handing over to the second network (i.e., this prevents the spurious handoff triggers) ((sections 3.3- 4.2.1).

Consider claim 11 and as applied to claim 10 above, Parikh et al. teach a method as claimed in claim 10, further comprising: releasing a packet data session if the user equipment does not handover to the second cellular communication network within the predetermined time thus requiring the user equipment to repeat the authentication procedure if the user equipment is moving towards the second communication network for a specified time (i.e., a gap in coverage and other areas for potential spurious handoff triggers) (section 4.2.1).

Consider claim 12 and as applied to claim 10 above, Parikh et al. teach a method as claimed in claim 1, further comprising: (i) sending by a user equipment a handover trigger indication to a gateway node in the second communication network, wherein the handover trigger indication comprises user equipment identification parameters and a packet data protocol profile (section 4.1 and figure 4); (ii) sending by a gateway node the user equipment

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identification parameters and the packet data protocol profile to a serving node in the second cellular communication network (section 4.1 and figure 4); (iii) contacting by the serving node a home location register to obtain user equipment authentication parameters (section 4.1 and figure 4); (iv) sending by the serving node a packet data protocol profile request to the gateway node (section 4.1 and figure 4); (v) responding by sending by the gateway node a packet data protocol profile response to the serving node(section 4.1 and figure 4); (vi) sending by the serving node authentication information to the gateway node(section 4.1 and figure 4); (vii) sending the gateway node the authentication information to the user equipment(section 4.1 and figure 4); (viii) authenticating by the user equipment the second cellular communication network(section 4.1 and figure 4); and (ix) sending by the user equipment a response to the serving node and moving the user equipment into the second communication network(section 4.1 and figure 4);

Consider claim 13 and as applied to claim 10 above, Parikh et al. teach a method as claimed in claim 1, further comprising: (i) sending by a user equipment a handover trigger indication to a gateway node in the second communication network(section 4.1 and figure 4); (ii) sending by the gateway node a protocol data unit notification request to a serving node in the second cellular communication network(section 4.1 and figure 4); (iii) contacting by the serving node a home location register to obtain user equipment authentication parameters(section 4.1 and figure 4); (iv) sending by the serving node a proxy authentication and a ciphering request to the gateway node(section 4.1 and figure 4); (v) converting by the gateway node authentication information in the ciphering request which is then sent to the user equipment(section 4.1 and figure 4); (vi) responding by the user equipment with an authentication message which is sent to

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the gateway node(section 4.1 and figure 4); (vii) converting by the gateway node the authentication message from the user equipment and sending a proxy authentication and a ciphering response to the serving node(section 4.1 and figure 4); (viii) sending by the serving node a protocol data unit notification response to the gateway node(section 4.1 and figure 4,conclusion); (ix) sending by the serving node a create packet data protocol request to the gateway node(section 4.1 and figure 4) (i.e., see "network initiated bearer setup"); (x) sending by the gateway node a create packet data protocol response to the serving node(section 4.1 and figure 4, conclusion) (i.e., see "network initiated bearer setup"); and (xi) replying by the gateway node to the handover trigger indication sent by the user equipment by sending a handover trigger response to the user equipment(section 4.1 and figure 4).

Consider claim 14, Parikh et al. clearly show and disclose a communication system (abstract and introduction) comprising: a user equipment; a first communication network and a second cellular communication network, the system being configured to enable continuity of a communication session when a user equipment moves from a coverage area of the first communication network to a coverage area of a second cellular communication network (abstract, introduction, section 4.1 and figure 4), and to simultaneously perform an authentication procedure for a packet data session with the second cellular communication network and a packet data protocol session establishment procedure with the second cellular communication network, while the user equipment is still attached to the first communication network(abstract, introduction, section 4.1 and figure 4.

Consider claim 15, Parikh et al. teach the communication system (figures 1-4) for ensuring continuity of a communication session when a user equipment hands over from a first

introduction), the communication system comprising: first performing means for performing an authentication procedure for a packet data session with a second communication network while still being attached to a first communication network (abstract, introduction, section 4.1 and figure 4); and second performing means for simultaneously perform a packet data protocol session establishment procedure with the second cellular communication network while still being attached to the first communication network(abstract, introduction, section 4.1 and figure 4).

Consider claim 16, Parikh et al. teach the communication system (figures 1-4), comprising an authentication unit configured to conduct an authentication procedure for a packet data session between a first and second communication networks when a user equipment hands off from the first communication network to the second communication network (abstract, introduction, section 4.1 and figure 4), the authentication procedure being conducted while the user equipment is still attached to a first communication network(abstract, introduction, section 4.1 and figure 4); and an establishment unit configured to simultaneously performing a packet data session establishment procedure with the second communication network while still being attached to the first communication network(abstract, introduction, section 4.1 and figure 4).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Shedrick whose telephone number is (571)-272-8621. The examiner can normally be reached on Monday thru Friday 8:00AM-4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kincaid Lester can be reached on (571)-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Charles Shedrick AU 2617 September 27, 2006

> LESTER G. KINCAID SUPERVISORY PRIMARY EXAMINER